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**DATE:** September 22, 2005

**TO:** Commissioner for Patents

**ATTN:** Decision and Certificate of Correction  
Branch of the Patent Issue Division

**FAX NUMBER:** (703) 746-4060

**FROM:** Jae-Hee Choi, Reg. No. 45,288, Attorney for Applicant  
Direct Telephone No.: (858) 651-5469  
Attorney Docket No.: 990485

**Total Number of Pages Sent:** 4 (including this transmittal cover sheet)

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**FILING BY FACSIMILE:**

ATTORNEY DOCKET NO.: 990485 JHC/KL

**ENCLOSED ARE:**

1. Letter to make error of record (2 pages)
2. Marked up copy of page 1 of Patent No. 6,944,765 (1 page)

**APPLICANT:** Rose et al.

**ASSIGNEE:** QUALCOMM Incorporated

**SERIAL NO.:** 09/468,557

**PATENT NO.:** 6,944,765

**ISSUED:** September 13, 2005

**FOR:** METHOD OF AUTHENTICATING ANONYMOUS USERS WHILE REDUCING POTENTIAL FOR  
"MIDDLEMAN" FRAUD

\*\*\*\*\*

Please contact Kate Lane at (858) 658-2047 if all pages do not transmit.

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT  
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Patent No. 6,944,765 ) For: METHOD OF AUTHENTICATING  
Issued: September 13, 2005 ) ANONYMOUS USERS WHILE  
 ) REDUCING POTENTIAL FOR  
 ) "MIDDLEMAN" FRAUD  
 ) Assignee: Qualcomm, Incorporated

LETTER TO MAKE ERROR OF RECORD

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

An error of a typographical nature has occurred through the fault of the U.S. Patent and Trademark Office as more fully described below.

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**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))**

I hereby certify that this correspondence is, on the date shown below, being:

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deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

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transmitted by facsimile to the Patent and Trademark Office on September 22, 2005

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Attorney Docket No. 990485

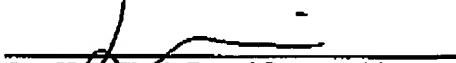
The exact page and line number where the error occurs in the issued patent are:  
At page 1, first column, (54), in the title, please replace "AUTHENTICATION" with  
--AUTHENTICATING--. The correct title should read as follows:

**METHOD FOR AUTHENTICATING ANONYMOUS USERS  
WHILE REDUCING POTENTIAL FOR "MIDDLEMAN" FRAUD**

According to 37 C.F.R 1.322 there is no fee for making this error of record. If, however, it is determined that fees are owed, Applicants hereby authorize that such fees be charged to Deposit Account No. 17-0026.

Respectfully submitted,

Dated: September 22, 2005

By: 

Jae-Hee Choi, Reg. No. 45,288  
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(12) **United States Patent**  
Rose et al.

(10) Patent No.: **US 6,944,765 B1**  
(45) Date of Patent: **Sep. 13, 2005**

*Authenticating*

(54) **METHOD OF AUTHENTICATION ANONYMOUS USERS WHILE REDUCING POTENTIAL FOR "MIDDLEMAN" FRAUD**

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(75) Inventors: **Gregory G. Rose, San Diego, CA (US); Philip M. Hawkes, Burwood (AU)**

OTHER PUBLICATIONS

(73) Assignee: **Qualcomm, Inc., San Diego, CA (US)**

Menezes, Alfred, Paul van Oorschot, and Scott Vanstone, *The Handbook of Applied Cryptography*, 1996, pp. 402-403.\*

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

Merkle, Ralph C. "Secure Communications Over Insecure Channels" *Communications of the ACM* 21(4): 294-299 (1978).

(21) Appl. No.: **09/468,557**

Rivest, et al. "Time-Lock Puzzles and Timed-Release Crypto" pp. 1-8 (Feb. 21, 1996).

(22) Filed: **Dec. 21, 1999**

Back, Adam "Hash Cash-A Partial Hash Collision Based Postage Scheme" pp. 1-5. (printed from website [www-cypherspace.org/~adam/](http://www-cypherspace.org/~adam/) on Apr. 25, 2000).

(51) Int. Cl. 7 ..... **H04L 9/00**

\* cited by examiner

(52) U.S. Cl. ..... **713/181; 713/188; 713/152; 713/153; 713/168; 380/30; 380/201; 380/251; 380/262; 705/51; 705/57; 705/67**

Primary Examiner—Andrew Caldwell

(58) Field of Search ..... **713/181, 188, 713/152, 153, 168; 380/30, 251, 201, 262; 705/51, 67, 57**

Assistant Examiner—Paul Callahan

(74) Attorney, Agent, or Firm—Phil Wedsworth; Sandip (Micky) S. Minhas; Jae-Hee Choi

(56) **References Cited**

(57) **ABSTRACT**

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A method of authenticating anonymous users while reducing potential for "middleman" fraud includes the step of constructing a puzzle in response to information received from a software user. The puzzle includes the received information. The puzzle is sent to the user by a software provider. The user solves the puzzle and returns the solution to the provider. The puzzle includes a portion of a value derived from an encrypted "cookie" and an exponentiation of the derived value. The cookie includes information about the user.

**3 Claims, 1 Drawing Sheet**

